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Attachment 3

MSS Options

OPTION 1: COMMIT NOW TO A PERMANENTLY MANNED CIVIL SPACE STATION.

System Description:

- Manned base to house 6-8 (Living module, Utility module, Docking hub, two attached operations modules)
- Two unmanned platforms: one in polar orbit; one in low inclination orbit.
- Teleoperator Maneuvering System based in space station.

Cost:

- \$8.0 billion (FY 1984 dollars) for DDT&E through IOC.
- FY 1985 cost: \$225 million.
- Not included: Transportation to/from station, cost of applications instruments, Shuttle TMS, O&M costs, Space Station definition costs.

IOC: 1991

Possible Future Elements:

- Enlarged manned base (12-18 persons)
- Increased power
- Space-based orbital transfer vehicle (OTV)
- Manned base in polar orbit

OPTION 2: COMMIT NOW TO EVOLUTIONARY DEVELOPMENT OF EXPANDED STS CAPABILITIES AND UNMANNED PLATFORMS.

System Description:

- Power extension package for Shuttle (20 days with crew of 4)
- Two unmanned platforms as in Option 1.

Cost:

- \$1.3 billion (FY 1984 dollars) for DDT&E.
- FY 1985 Cost: \$190 million.

IOC: 1990.

Possible Future Elements: Space based OTV.

OPTION 3: DEFER COMMITMENT TO EITHER OPTION 1 OR OPTION 2 PENDING ADDITIONAL DEFINITION OF REQUIREMENTS, COSTS, AND RISKS.

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